

**Andrew R. Cline, Ph.D.
Senior Insect Biosystematist**

Curriculum Vitae

CURRENT EMPLOYMENT

California Department of Food & Agriculture, Plant Pest Diagnostics Center (CDFA-PPDC)
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EDUCATION QUALIFICATIONS

Doctorate of Philosophy (Entomology): Louisiana State University (2005).
Master of Science (Entomology): University of Missouri (2000).
Bachelor of Science (Biology/Ecology): University of Alabama - Huntsville (1996).

PROFESSIONAL AFFILIATIONS

Associate: Department of Entomology, University of California - Davis.
Research Associate: Florida State Collection of Arthropods. Gainesville, FL.

PROFESSIONAL SERVICE

- Chair, Program Committee: Pacific Coast Entomological Society. 2007-present.
- Membership Secretary: The Coleopterists Society. 2007-present.
- Supervisor: National Agric. Pest Information System (NAPIS) at CDFA-PPDC. 2006-present.
- Councilor to Executive Committee: The Coleopterists Society. 2006- present.
- Co-Supervisor: California Plant Pest Diagnostics Center research library. 2005-present.
- Organizer/Moderator: Entomological Society of America, Section A symposia. 2003.
- Co-Organizer: Entomological Society of America SE Branch, Linnaean Games. 2003.
- Manuscript Referee. 2000-present.

Acta Entomologica Musei Nationalis Pragae
Entomological News
European Journal of Entomology
Invertebrate Systematics
New Zealand Entomologist

Proceedings Entomol. Soc. of Washington
The Coleopterists Bulletin
The Pan-Pacific Entomologist
Zootaxa

HONORS/AWARDS/FELLOWSHIPS/SCHOLARSHIPS [\$20,700 TOTAL]

- 2004. Entomological Society of America, SE Branch: Comstock Award. [\$1100].
- 2003. Florida Entomological Society: Graduate Student Scholarship. [\$500].
- 2003. Entomological Society of America: Program Enhancement Funds. [\$2600].
- 2003. Louisiana State University: Graduate School Travel Award. [\$150].
- 2003. Russian Academy of Sciences: Invited to study at the Zoological Institute in St. Petersburg.
- 2002. Entomological Society of America: Honorable Mention, Section A Student Competition.
- 2002. Louisiana State University: Graduate School Travel Award. [\$150].
- 2001. Organization for Tropical Studies: Graduate Course Award. [\$3000].
- 2001. Louisiana State University: Graduate School Travel Award. [\$150].
- 2000. Louisiana State University: Jelinski Fellowship. [\$12,000].
- 2000. Entomological Society of America: Linnaean Games National Champions.
- 2000. University of Missouri: Stone Award. [\$500].
- 1999. University of Missouri: C.V. Riley Entomological Society Award of Merit. [\$50].
- 1996. University of Alabama - Huntsville: Departmental Honors in Biological Sciences.
- 1996. Phi Kappa Phi National Honor Society.
- 1992. Austin High School: H.L. Ogle Education Scholarship. [\$500].

GRANTS AWARDED [\$53,030 TOTAL]

- 2006. USDA-CPHST: Lucid Key to Wood Boring Beetles & World Bostrichidae Genera. [\$44,000].
- 2003. NSF: Doctoral Dissertation Improvement Grant, DEB 0308764. [\$3350].
- 2003. Sigma Xi, LSU Chapter: Grant-In-Aid of Research. [\$500].
- 2002. Harvard University, Museum of Comparative Zoology: Ernst Mayr Grant. [\$1900].
- 2002. Florida Entomological Society: Graduate Student Travel Grant. [\$200].
- 2002. Field Museum of Natural History: Visiting Systematist Travel Grant. [\$620].
- 2002. Canadian Museum of Nature: Visiting Systematist Travel Grant. [\$360].
- 2001. Organization for Tropical Studies, Smithsonian Tropical Research Institute. [\$1000].
- 2001. Sigma Xi, LSU Chapter: Grant-In-Aid of Research. [\$100].

TEACHING EXPERIENCE

Lecture Instruction

- Introductory Entomology (2 lectures). Louisiana State University. 2003 & 2004.
- Insect Taxonomy (3 lectures). Louisiana State University. 2003.
- Insects in the Environment (3 lectures). Louisiana State University. 2000.
- Arthropod Biodiversity (6 lectures). University of Alabama - Huntsville. 1997.

Laboratory Instruction

- Insect Taxonomy (3 sessions). Louisiana State University. 2001& 2003.
- Introductory Entomology (2 sessions). Louisiana State University. 2002.
- Insect Ecology (1 session). Louisiana State University. 2002.
- Insects in the Environment (1 section). Louisiana State University. 2000.
- General Entomology (1 section). University of Missouri. 1999.
- Organismal Biology (9 sections). University of Alabama - Huntsville. 1997 & 1998.
- Introductory Biology (3 sections). University of Alabama - Huntsville. 1997.
- Vertebrate Zoology (1 section). University of Alabama - Huntsville. 1996.

Teaching Workshops

- 2004. NSF Summer Workshop. Regional Conference. San Antonio, TX.
- 2001. Departmental Teaching Workshop. Louisiana State University. Entomology Department.

PROFESSIONAL PRESENTATIONS & WORKSHOPS

- 2006. Montana State University, Bozeman, MT - invited seminar
- 2005. Entomological Society of America, Ft. Lauderdale, FL - poster
- 2004. Sigma Xi, LSU Chapter, Baton Rouge, LA - invited talk
Entomological Society of America, Salt Lake City, UT - poster
- 2003. Entomological Society of America, Cincinnati, OH - invited talk
H.O. Lund Entomological Society, University of Georgia, Athens, GA - poster
- 2002. Entomological Society of America, Ft. Lauderdale, FL - poster
- 2001. Organization for Tropical Studies, Costa Rica - invited workshop & invited talk
Entomological Society of America, San Diego, CA - student talk
- 2000. Baton Rouge Audubon Society, Baton Rouge, LA - invited talk
Louisiana State University, Entomology Department - invited seminar
- 1999. Entomological Society of America, Atlanta, GA & Des Moines, IA - poster
- 1998. University of Missouri, Department of Entomology - invited seminar

SOCIETY MEMBERSHIP

- Center for Systematic Entomology
- Entomology Collections Network
- Entomological Society of Washington
- Pacific Coast Entomological Society

- Coleopterists Society
- Entomological Society of America
- Ohio Coleopterists

CURRENT COLLABORATIVE RESEARCH PROJECTS

- 1) Arthropods of California's State Parks - California State Collection of Arthropods.
- 2) Beetle Tree of Life (BTOL) - Brigham Young University, Harvard University, University of Arizona.
- 3) Coleoptera of Burkina Faso - Canadian Museum of Nature.
- 4) Coleoptera of the Canadian Maritime Provinces - Nova Scotia Museum of Natural History.
- 5) Fiji Terrestrial Arthropod Survey - Bishop Museum.
- 6) Ghana Insect Project - Western Kentucky University.
- 7) Great Smoky Mountains National Park, All Taxa Biotic Inventory (GSMNP-ATBI) Coleoptera Taxonomic Working Group - Louisiana State University.
- 8) Leaf Litter Arthropods of MesoAmerica (LLAMA) - Evergreen State College, Canadian Museum of Nature.
- 9) Investigations in the Biodiversity of Soil and Canopy Arthropods (IBISCA), Australia, Panama, Vanuatu - Smithsonian Tropical Research Institute, Solvin-Bretzel, Canopy Raft Consortium.
- 10) Madagascar Arthropod Biodiversity Project (MABP) - California Academy of Sciences.
- 11) Thailand Insect Group for Entomological Research (TIGER) - University of Kentucky.
- 12) West Indies Beetle Project - Montana State University.

MUSEUM RESEARCH (acronym of museum visited)

Bolivia (UASC); Canada (CMN, CNC); Costa Rica (MZCR); England (BMNH); Russia (ZIN); United States (BYU, CAS, CSCA, EMEC, FMNH, FSCA, GSNP, LSAM, MCZ, MEM, MTEC, UCDC, UMRM)

FIELD RESEARCH

North America: AL, CA, FL, IO, KY, LA, MO, NC, TN, TX
Central America: Costa Rica: Guanacaste, LaSelva, & Puntarenas
Panama: Barro Colorado Island
South America: Bolivia: Santa Cruz District

REFEREED PUBLICATIONS

Book Chapters

- 1) Cline, A.R. & F.W. Shockley. [In press]. Biphyllidae LeConte, 1861. In Beutel, R.G. & R.A.B. Leschen (eds.) Handbook of Zoology. Volume IV. Arthropoda: Insecta. Part 38. Coleoptera, Beetles.
- 2) Cline, A.R., M.A. Goodrich & R.A.B. Leschen. [In press]. Byturidae Jacquelain duVal, 1858. In Beutel, R.G. & R.A.B. Leschen (eds.) Handbook of Zoology. Volume IV. Arthropoda: Insecta. Part 38. Coleoptera, Beetles.
- 3) Cline, A.R. [in press]. Corylophidae LeConte, 1852. In Beutel, R.G. & R.A.B. Leschen (eds.) Handbook of Zoology. Volume IV. Arthropoda: Insecta. Part 38. Coleoptera, Beetles.
- 4) Cline, A.R. & S.A. Ślipiński. [In press]. Discolomatidae Horn, 1878. In Beutel, R.G. & R.A.B. Leschen (eds.) Handbook of Zoology. Volume IV. Arthropoda: Insecta. Part 38. Coleoptera, Beetles.
- 5) Jelínek, J. & A.R. Cline. [In press]. Kateretidae Erichson in Agassiz, 1846. In Beutel, R.G. & R.A.B. Leschen (eds.) Handbook of Zoology. Volume IV. Arthropoda: Insecta. Part 38. Coleoptera, Beetles.
- 6) Jelínek, J., R.A.B. Leschen, C.E. Carlton & A.R. Cline. [In press]. Nitidulidae Latrielle, 1802. In Beutel, R.G. & R.A.B. Leschen (eds.) Handbook of Zoology. Volume IV. Arthropoda: Insecta. Part 38. Coleoptera, Beetles.

- 7) Cline, A.R. & J. Jelínek. [In press]. Smicripidae Horn 1879. In Beutel, R.G. & R.A.B. Leschen (eds.) *Handbook of Zoology*. Volume IV. Arthropoda: Insecta. Part 38. Coleoptera, Beetles.

Research Papers

- 1) Cline, A.R., K.B. Miller, M.F. Whiting, T.R. Smith, & M. Moulton. [In Prep.]. Higher phylogenetics of Nitidulidae, proposed new subfamily and elevation of Cybocephalidae (Coleoptera: Cucujoidea). *Invertebrate Systematics*.
- 2) Cline, A.R. [In Prep.]. New Neotropical Discolomatidae (Coleoptera: Cucujoidea); with description of larvae and review of New World taxa. *Annales Zoologici*.
- 3) Cline, A.R. [In Prep.]. Monographic revision of *Pocadius* Erichson (Coleoptera: Nitidulidae). *Zootaxa*.
- 4) Medianero, E., G. Castaño-Meneses, A. Tishechkin, Y. Basset, H. Barrios, F. Ødegaard, A.R. Cline, J. Bail, & L. Cizek. [In Press]. Influence of local illumination and plant composition on the spatial and seasonal distribution of litter-dwelling arthropods in a tropical rainforest. *Pedobiologia*.
- 5) Cline, A.R. [In Press]. A New Species of *Thalygra* Erichson (Coleoptera: Nitidulidae) from Baja California, Mexico with commentary on the genus. *The Pan-Pacific Entomologist*.
- 6) Backus, E.A., A.R. Cline, M.S. Serrano, & M.R. Ellerseick. [In Press]. *Lygus hesperus* (Knight) (Hemiptera: Miridae) feeding on cotton: New methods and parameters for analysis of non-sequential EPG data. *Annals of the Entomological Society of America*.
- 7) Majka, C.G. & A.R. Cline. 2006. Nitidulidae and Kateretidae (Coleoptera: Cucujoidea) of the Maritime Provinces of Canada. I. New Records from Nova Scotia and Prince Edward Island. *The Canadian Entomologist*. 138:314-332.
- 8) Majka, C.G. & A.R. Cline. 2006. New Records of Corylophidae (Coleoptera) from the Maritime Provinces of Canada. *The Coleopterists Bulletin* 60:105-111.
- 9) Cline, A.R. & R.A.B. Leschen. 2005. Coleoptera associated with the Oyster Mushroom, *Pleurotus ostreatus* Fries, in North America. *Southeastern Naturalist*. 4:409-420.
- 10) Ewing, C.P & A.R. Cline. 2005. Key to Adventive Sap Beetles (Coleoptera: Nitidulidae) in Hawaii, with Notes on Records and Habits. *The Coleopterists Bulletin*. 59:167-183.
- 11) Cline, A.R. & C.E. Carlton. 2004. Review of *Lasiodactylus* Perty (Coleoptera: Nitidulidae) with description of three new species from the Neotropics. *The Coleopterists Bulletin*. 58: 355-368.
- 12) Cline, A.R. 2004. A new species of *Psilotus* Fischer von Waldheim (Coleoptera: Nitidulidae) from Peru, with new distribution records for other *Psilotus* species. *Proceedings of the Entomological Society of Washington*. 106:890-898.
- 13) Cline, A.R. 2004. A new sap beetle (Coleoptera: Nitidulidae) to the United States with a revised key to the *Camptodes* Erichson occurring in America North of Mexico. *Insecta Mundi*. 17:101-102.
- 14) Ewing, C.P. & A.R. Cline. 2004. New records and taxonomic updates for the adventive sap beetles (Coleoptera: Nitidulidae) in Hawaii. *Bishop Museum Occasional Papers, Records of the Hawaii Biological Survey, Part 2: Notes*. 79:40-45.
- 15) Shockley, F.W. & A.R. Cline. 2004. A Contribution to the Inventory of the Coleoptera of Missouri: Records from Benton County. *Journal of the Kansas Entomological Society*. 77:280-284.
- 16) Cline, A.R. & C.E. Carlton. 2004. Two new species of *Epuraea* (*Orthopeplus*) (Coleoptera: Nitidulidae) from Mexico. *The Coleopterists Bulletin*. 58:261-270.
- 17) Kirejtshuk, A.G. & A.R. Cline. 2003. *Pleoronia tuberculata* Kirejtshuk and Cline sp. n. and *Stenoronia librodoriformis* Kirejtshuk and Cline sp. n. In, Kirejtshuk, A.G. Four new genera of the *Soronia* complex (Coleoptera: Nitidulidae) from Australia, New

- Zealand, Fiji, and tropical America with notes on composition of the complex and description of new species from Southern Hemisphere. *Russian Entomological Journal*. 12:239-256.
- 18) Cline, A.R., F.W. Shockley, & B. Puttler. 2002. Description of surface swimming by *Hypera eximia* (Coleoptera: Curculionidae): behavioral, morphological, and phylogenetic implications. *Annals of the Entomological Society of America*. 95:637-645.
 - 19) Cline, A.R. & E.A. Backus. 2002. Correlations among AC electronic monitoring waveforms, body postures, and stylet penetration behaviors of *Lygus hesperus* (Hemiptera: Miridae). *Environmental Entomology*. 31:538-549.

Scientific Notes

- 1) Cline, A.R. 2006. Commentary on priority of the family-group name Kateretidae Erichson (Cucujoidea). *The Coleopterists Bulletin*. 60:271-272.
- 2) Cline, A.R. 2004. New state records for two species of *Thalycra* Erichson (Coleoptera: Nitidulidae) with notes on species sympatry. *The Coleopterists Bulletin*. 58:137-138.
- 3) Cline, A.R. 2003. New distribution records for *Pocadius basalis* Schaeffer (Coleoptera: Nitidulidae: Nitidulinae) from the Southwestern United States. *The Coleopterists Bulletin*. 57:390.

Book Reviews

- 1) Cline, A.R. 2006. "The Beetle Fauna of Rhode Island." by D. Sikes. *The Coleopterists Bulletin* 60:304-305.
- 2) Cline, A.R. 2006. "Beetles of the Czech and Slovak Republics." by K. HŮRKA. *The Coleopterists Bulletin*. 60:242.
- 3) Cline, A.R. 2006. "Contributions to Systematics and Biology of Beetles: Papers Celebrating the 80th Birthday of Igor Konstantinovich Lopatin." Edited by Konstantinov, A., A. Tishechkin, and L. Penev. *The Coleopterists Bulletin* 60:144.
- 4) Cline, A.R. 2004. "Erotylidae (Insecta: Coleoptera: Cucujoidea): Phylogeny and Review. 47." by R.A.B. Leschen. *The Coleopterists Bulletin*. 58:600-601.
- 5) Cline, A.R. & E.A. Backus. 2000. "Form and Function of Insect Wings. The Evolution of Biological Structures." by D.L. Grodnitsky. *Journal of Insect Behavior*. 12:865-867.

NON-REFEREED PUBLICATIONS

- 1) Cline, A.R. & C.L. Bellamy. 2005. Coleoptera. pp. 3-6 In S.D. Gaimari (ed.) California Plant Pest and Disease Report. CDFA, Sacramento, CA. 76pp.
- 2) Cline, A.R. 2005. Revision of *Pocadius* Erichson (Coleoptera: Nitidulidae). Ph.D. Dissertation. Louisiana State University.
- 3) Cline, A.R. 2003. New distribution records for *Camptodes nigerrimus* Erichson from Arizona. Web-Publication. [<http://entomology.lsu.edu/lSAM/Camptodes%20Note.htm>]
- 4) Cline, A.R. 2001. Differential diversity of frugivorous beetles in primary and secondary forests in LaSelva, Costa Rica. *OTS Topical Biology an Ecological Approach*. 01-03:199-203.
- 5) Cline, A.R. 2001. Nested quadrat design for estimating species accumulation curves of litter dwelling Coleoptera. *OTS Topical Biology an Ecological Approach*. 01-03:239-245.
- 6) Cline, A.R. 2001. Differential diversity of leaf litter Coleoptera in tree fall gaps and secondary forest. *OTS Topical Biology an Ecological Approach*. 01-03:33-37.
- 7) Cline, A.R., B.P. Freymann, M. Donnelly, J.Y. Adkins, J.F. Bischoff, J. Koslow, and K.R.T. Whelan. 2001. A structured inventory of the amphibian population at Palo Verde, Costa Rica and the corresponding vegetation. *OTS Topical Biology an Ecological Approach*. 01-03: 370-396.

- 8) Cline, A.R. & M. Kutner. 2001. A new symbiont (Hemiptera: Nabidae) of *Tengella* (Araneae: Tengellidae) and factors affecting their symbiosis. *OTS Topical Biology an Ecological Approach*. 01-03:38-41.
- 9) Cline, A.R. & K.R.T. Whelan. 2001. Freshwater shrimp populations in a stream at the Reserva Absoluta Cabo Blanco, Costa Rica. *OTS Topical Biology an Ecological Approach*. 01-03:331-338.
- 10) Cline, A.R. & K.R.T. Whelan. 2001. Building the better beetle trap: constructing a leaf litter sifter and large scale Berlese extraction funnel. *OTS Topical Biology an Ecological Approach*. 01-03:79-82.
- 11) Kutner, M., J. Adkins, C. Nufio, S. Busch, A.R. Cline, D. Farmer, & R. Rowe. 2001. Terrestrial arthropod diversity and soil comparison of the Pacific and Atlantic slopes in the Cerro de la Muerte region, Costa Rica. *OTS Topical Biology an Ecological Approach*. 01-03:59-64.
- 12) Valejo, M., A.R. Cline, K. Barton, J. Bischoff, & A. Sweiggert. 2001. Are you in or are you out? Predation on fruits and seeds of *Heliconia tortuosa*. *OTS Topical Biology an Ecological Approach*. 01-03:21-24.
- 13) Wilkinson, E., R. Yukilevich, T. Brown, A.R. Cline, S. Solomon, & M. Valejo. 2001. Foraging behavior in the Neotropical army ant *Eciton burchelli*. *OTS Topical Biology an Ecological Approach*. 01-03:122-129.
- 14) Yukilevich, R., J. Koslow, E. Lindquist, P. Sherman, A.R. Cline, M. Bateman, K. Barton, & S. Solomon. 2001. Foraging preference and forest impact of the crab *Gecarcinus quadratus* in the Cabo Blanco Biological Reserve, Costa Rica. *OTS Topical Biology an Ecological Approach*. 01-03:266-270.
- 15) Cline, A.R. 2000. "Millenium Edition - Tiger Beetle". Department of Entomology, University of Missouri.
- 16) Cline, A.R. 1999. General Entomology Lab Exercise, Department of Entomology, University of Missouri. [X3]
- 17) Cline, A.R. 1997. Organismal Biology Laboratory Manual, Department of Biological Sciences, University of Alabama in Huntsville. 74pp.